#### DESTRUCTION OF INSECTS.

Texas Man Has Invented a Gas-Making Machine That Kills Parasites "on Sight."

When the plants in the little garden paich in the house garden begin to show the destroying effects of insects and worms, the gardener usually takes an old tomato can and a stick and gathers his first crop, which he proceds to destroy forthwith. Only as he continues to harvest these preliminary pestiferous growths has he any assurance that he will be able to gather things good to eat later in the meason. But the garden is comparatively small, and little time is required to keep the bugs and worms in check. It is only when the farmer begins his battle with the inhabitants of a potato patch covering acres of



NOXIOUS GAS KILLS PESTS

ground that he comes to realize how powerful an enemy he is fighting. The army is so large that he has no chaice but to fight it echolesale, instead of dealing with each one of the little pests individually, as in the garden. The common method of work is to apply paris green, hellebore or some poison which can be mixed in liquid form and sprinkled on the It is well known that many buse escape this poison and continue to live and breed seven when the plants are dosed several times during the season. It is to be hoped that the illustration will prove more effective reservoirs on the carriage, and the during the past season. latter is then driven over the field front of the hooded portion, and sur- trowned in emulsions of kerrounds the plant completely for a period long enough to kill all insects which are harbared therein.-Louisville Courier-Journal.

### REAL HOME OF BLUEGRASS.

It Was First Discovered in Indiana and Kentucky Got It from the Hoasier State.

"I notice by the papers that somebody in the southern part of the state wants to know where bluegrass first thandy stepladder. It need cost but started," said Prof. John Collett, former state geologis:. "A great many people contend that it was first found in Kentucky, but this is not so. Bluegrass is a native of the Wabash valley in Indiana. It was found by William Henry Harrison's troops during that colemn march to Tippecanoe in 1811. Harrison gathered a small army fruit-picking sea- Co. The clerks, panic-stricken, fled at Onio Falis and started north. At son it is almost indispensable. The from the building. The animal de-Vincennes the gallant heroes realized that they could not go 200 miles up buards, with the steps of the horses. Gen. Harrison had two cribs legs are two by two, properly braced. of corn at Terre Haute, and persuaded the men to go on. As they came on with hung, y horses and scant feed cleats underneath. - Orange Jude they found the ground covered with Farmer. bluegrass.

"Six miles west of Newport, on the Collett farm, was found a bountiful supply of bluegrass. Some places in Dickson, has worked out a new formula the bottom it was growing three feet for the destruction of the San Jose high, and such feed had never been scale. He calls it lime oil. This new heard of by the Kentucky soldier. At State Line City more alluegrass was sible for many changes in the use of found, and from there to Tippecanoe both crude petroleum or refined oil. Mr. the whole line of marc. was covered Dickson slacks ten pounds of stone with bluegrass.

"The seed was carried back to Kentucky and sewn there, but they could of water; this gives him a 20 per cent, oil not make it shrive alone in the warm solution. It can be applied almost as soil, and it had to be sown with oats easily as pure kerosene, does not injure and the. Mr. Sandusky, the father of the foliage and will kill the scale. It is the present family of that name, told much less trouble to make than the me in an early day that no blategrass kerosene emulsion and more easily apgrew in Kentucky until after it was plied .- St. Louis Republic. imported from Indiana. Tom Downing, of Terre Heate, was an ardent admirer of Henry Clay, and once went to visit him at his keeme near Ashland, in the home garden and under so gen-Ky. After seeing the fine farm well eral neglect, and yet that under this set in blyegrass, Downing suggested condition produces fruit of some value, that Mr. Clay let him have some of remarks Prof. Maynard. When well the seed to take back to Indiana.

Tom, den't make a fool of yourself, said Clay, 'the grandsire of Ken- produced in large quantities. It suctucky bluegrass is growing around ceeds well under the shade of fruit or your house and in the fence corners ornamental trees, if the soil is made of your fields. We got the seed from rich. To obtain the largest and best Terre Haute and the middle Wabash fruit the old wood (that over three and after a hard struggle got it to years old) is cut away as the large fruit grow here in its present luxurious- is borne on canes two and three rears with bribing a witness. He was resesa"-Indianapolis Journal. \_

#### TWO STRAWBERRY PESTS.

They Are Called False-Worm and Leaf Roller and Are Very Ha.d to Exterminate.

The Missouri station tast year conducted some very interesting experiments and investigations in the destruction of the two worst strawberry pests in this country, the false-worm and the leaf-roller. The first is found to have but one brood which batches from the time the first plossoms appear till the berries are ripe. These can easily be held in check by dusting or spraying about the beginning and middle of this time. For the home natch or home market it is best to dust the patch with pure, fresh pyrethrum, which can be done at any time, as it is absolutely harmless. This is, however, the most expensive and least effective of all the known remedies. For commercial growers, the best method is to use fresh powdered white hellebore in the proportion of one pound to every three gallons of water. This should be sprayed on before the berries are a third ripe, so that the rains and dews will have abundant time to dissipate any possible harmful effects from it.

The leaf-roller probably has only two broods in the north, but in southern Missouri lit has three. This pest has so many ways of protecting itself that ne kind of sprays or ordinary remedy does any good. Fortunately, however, fire doesn't hurt the plants any and does dispose of them very effectually. The plants should be mowed, dried, raked up on the rows and if necessary assisted by the addition of dry straw and the whole burned when the wind is in the right direction. In the south this should be done either in the middle of July, to catch the second brood, or in the middle of September, to catch the third. The plants will at once put forth a set of fresh green leaves free from pests of all kinds; the next year's crop will generally be remarkably successful.

#### PLANT LICE IN ORCHARDS.

They Are Exceedingly Hard to Kill and Ordinary Sprays Have Little Effect on Them.

Although plant lice probably often occur in orchards, they are very seldem found in such numbers as to be really troublesome or destructive. A noted exception was the past season in New York state, probably on ac- pal revenue bureau, Thursday made count of the unusual weather condi- the following statement: tions, which seem to have prevented the usual development of their nat- revenue bureau for the fiscal year closural enemies, the lady beetles. There new apparatus which we show in the are three kinds of plant lice that may \$233,500,000. This shows an excess of occur on apple trees, namely, Fitch's collections over the fiscal year ending and subject the bugs to a treatment apple aphis, the Rosy apple aphis and June 30, 1903, of some \$3,000,000. The which it will be impossible for them to the Apple Leaf aphis. The last is the In this machine there is only one that lives on the apple all a gas-producing apparatus, designed the year round and is doubtless reto generate a large quantity of nex- sponsible for the remarkable amount four fumes. The gas is stored in the of damage done in western New York the amount of tax collected being to

As these insects feed somewhat after lengthwise of the rows of plants. It the manner of a mosquito, by sucking will be seen that the semi-circular up the internal juices of the plant shape of the reservoirs enables them through a long threadlike bill, thereto nearly inclose the plant growths for fore the ordinary polson sprays, such ing from general business depression, considerable space of time while the as bordeaux mixture or paris, green, carriage is being drawn along. The have little or no effect on them. They gas in storage is poured from the should rather be smothered and whale oil soap or tobacco. A spraying of this kind should be extremely thorough, as the insects are not killed unless hit with the spray, and they reproduce very rapidly indeed.

## VERY CHEAP STEPLADDER.

Convenient in the House During Cleaning Time and Out of Doors All the Time.

The illustration shows a cheap

very little. It is just five feet high, and is most concleaning time, and times. During the

ladder proper is made of one by six The board on the top should be of good inch boards with at least two

New Lime and Oil Spray.

A Delaware fruit grower, William combination will doubtless be respontime with five gallons of refined kerosene oil, after which he adds 25 gallons

How to Grow the Current. No other small fruit is so often found grown in a rich soi! and properly crowds gathered at the dock and palpruned the fruit is of large size and is | ace to meet him.

Statement in Regard to Receipts and Disbursements.

Pensions Show An Increase of \$4,183,-000 and Interest, Payments a Decrease of Over \$4,000,000, as Compared With 1903.

Washington, July 1. - Secretary Shaw Thursday gave out a statement showing the comparison between the stimates which he submitted to congress in his last annual report and the actual receipts and disbursements during the fiscal year, from which it appears that the actual surplus is onabout three-fourths of a million less than the estimated surplus when as count is taken only of expenditures which were considered in submitting the estimate. In the estimate submitted to congress no account was taken of possible expenditures in securing the right of way for the istimian canal nor of the loan of \$4,600,000 to the Louisiana Purchase Exposition Co. Tie estimate was based also on the then existing laws. These were subsequently modified by the ratification of the reciprocity treaty with Cuba. The secretary calls attention to the fact that the surplus would have been several millions in excess of his estimate but for the reciprocity arrangement with Onba which reduced the revenues from \$6,000,000 to \$8,000,000.

The available cash June 30, 1904, amounts to \$166,965,872, as compared with the fiscal year ended June 1, 1903. These figures show increases and deerranes in receipts as follows:

Customs, decrease, \$21,823,235; internal revenue, increase, \$2,320,440; miscellaneous, increase, \$1,802,014. The civil and miscellaneous expenditures for the year just ended exceeded those for the year 1903, including the payments on account of the Panama canal purchase and the St. Louis exposition loan by \$67,813,602. The expenitures on account of the war department were \$3,211.897 less than for 1903, and the expenditures on account of the navy were \$20,060,271 greater than for 1968.

Pensions show an increase of \$4 123,000 and interest payments a decrease of over \$4,000,000 as compared with 1963. Commissioner Yerkes, of the inter-

The total receipts of the internal ing Thursday evening will be about rates of taxation on various articles paying an internal revenue tax being the same this fiscal year as during the year which ended June 30, 1903 and excess by some three and a half millions of dollars, does not indicate that the business movements of the counand its commercial transactions are decreasing, or that we are sufferas claimed by some.

### CUSTOM HOUSE STATISTICS.

the Year Was \$170,972,579.

New York, July 1.-A summary of operations at the custom house for the fiscal year ended Thursday shows the: the number of entries was 366,893 as compared with 361,568 for the previous fiscal year. The amount of customs duties collected for the year was \$170,-972,579, as compared with \$180,970. 144 in the previous year. The year 1902-3 was a high record year in volame of customs receipts. The year just ended is second highest.

Wild Texas Bull Creates a Panic. Peoria, Ill., July 1 .- A wild Texas venient in the bull escaped from the stock yards in house during the lower end of the city and dashed through the streets with several stockout of doors at all men in pursuit. It entered the wholesale drugstere of Colburn, Birks & from the building. The animal destroyed considerable property and finally leaped through a window 15 feet the Wabash without feed for their same material. The two opposite from the ground, sustaining injuries which caused death.

> Present For Attorney General Knox. Washington, July 1 .- Solicitor General Hoyt, in behalf of the official and cherical force of the department of justice, presented a beautiful library clack to Attorney General Knox, who recently resigned.

Parcel Post Agreement Signed. Washington, July 1.—Postmaster General Payne and Mr. Takashira, the panese minister, Thursday signed a parcels post agreement between the United States and Japan. The agreement will take effect August 1.

Went to Their New Summer Home. North Sandwich, N. H., July 1 .-Mrs. Grower Cleveland and her children arrived at their new summer home here Thursday night. Mrs. Cleveland said that the date of Mr. Cleveland's arrival was uncertain.

The New Governor of Porto Rico. San Juan, P. R., July 1.-Judge Beekman Winthrop, new governor of Porte Rico, accompanied by his wife, arrived here Thursday on the steamer Caracas from New York. Large

Charged With Bribing a Witness. St. Louis, July 1.-Col. Edward Butler, a prominent local politician, came into court Thursday afternoon in answer to a bench warrant charging him leased on a bond of \$10,000.

MECESSARY EXPENDITURES

FOR ONE TERM-12 Weeks. SCHOOL EXPENSES-due first day of term Lot Norm Normal Schools Incidental

Fee 100 Ho-pital Fee 28 B oks, paper retimated 2 29 For piano, stenceraphy and other extras see

LIVING EXPENSES - Board due in advance by month, keep sept by term. B aid t om fuel and hebte \$21 for fall and spring \$1 75 a week : \$2" for winter term (\$2.0

Bu rd in the village-allowed in approved places-tyries in price secording to secommo

Addition these living expenses to school ex To be paid the first day ilucluding the \$1 depost In Collegiste Department \$20.20: Academy and Laten Normal \$19.20, Applied Science, Normal and A Grammat \$17.20, M. de Schools \$15.20 In

winter \$1.8 more for each. No student can be

received who talls to make this advance pay

Total Ordinary Expenses for 12 Weeks are seen to be: to Collegiate Department \$30, Academy and Latin Normal \$29, Aprilled Science, Normal and A Grammar \$27, Model Schools \$25. In winter

three dollars more for each. Students paying board and room rent in ful for a term at the beginning receive a discount of

Students duly excused before the end of a term receive back so equitable portion of the money they have advanced.

SPECIAL EXPENSES.

Plane, Vocal or Special Theory (24 lessons, Plano. Vocal or Special Theory [24 leasons, 1 hour, class of three]
Organ. Violin etc. [14 leasons, class of three Stenography or Typewriting, per term. Class wore in Harmony
Use of Plano or Typewriter [1 hr. a day. Use of organ (1 hr. a day. Rent of Music Library, per term. Chemical Laboratory, according to material and breakage, about thysical and Microscopical Laboratories, per term.

per term
La rilais in drawing per term
La rilais in drawing per term
La mination, except on appointed days.
Graduation Fee, with degree, with diploma



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Over 40 Teachers and 900 Students (from 26 States). Largest College Library in Kentucky. NO SALOONS.

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Academy Conrae-Four years, fitting for College, for business and

Cottege Courses-Literary, Scientific, Classical, leading to Beccalaure ate degrace.

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We are here to help all who will help themselves toward a Christian edu cation. Our instruction is a free gift. Students pay a small incidental foe to meet expenses of the school apart from instruction, and must also pay for board in advance. Expenses for term (12 Weeks) may be brought within \$24.00, about \$15 to be paid in advance.

The School is endorsed by Baptists, Christians (Disciples), Congregations alists, Methodists, Presbyteriaus, and good people of all denominations.

Per INFORMATION and FRIENDLY ADVICE address the SECRETARY.

WILL C. GAMBLE,

Berea, Madison County, Ky

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To Old and New Subscribers to The Citizen.

We are especially auxious that every old subscriber to THE CITIZEN should settle up his arrears and pay his

June 8th, 1904, Berea College Commencement Day.

We are equally anxions to add a large number of new subscribers to our list on and before that date. In order to accomplish our purpose we make the following offer which is the most liberal ever made by

## For Every \$1.00 You Pay Us We Will Give \$2.00 Back.

Not in each to be sure, but in its equivelant. In other words, we credit your subscription account with each \$1.00 paid and give you the same amount in subscriptions to Newspapers and Magazines selected from the following list:

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\$1.00 5. The American Home Monthly \$ .50 6. The American Farmer 1.00 7. Vicks Family Magazine .50

.50

1.00 %. Selected by us

No. 1 in this list is the best farm paper published in the world. 20 pages No. 2 is a splendid family newspaper of national scope. 8 pages No. 3 is the newspaper that will keep you in touch with the World's Fair and the world at large. 8 pages

No. 4 was formerly the Commercial and is too well known to need comment. 8 pages

No. 5 is a high grade beautifully illustrated family story magazine. 16 pages

No. 6 is an excellent farm journal which also discusses current events in an able manner. 16 pages No. 7 is the equal of most \$1.00 magazines. 30 pages

No. 8 is-well trust us to choose wisely for you.

To Old Subscribers.

If you send or pay us \$1.00 on your subscription account on or before Commencement Day select \$1.00's worth of subscriptions from the above list; if \$1.50 then select \$1.50's worth; if \$2.00 then \$2.00's worth of subscription, and so on.

To New Subscribers.

One dollar will pay for The Citizen one year and for a year's subscription to a \$1.30 newspaper or to two magazines from our list; \$2.00 will secure The Citizen for two years and two \$1.00 newspapers or a \$1.00 newspaper and two magazines or four magazines, each for one year, and so on.

To Both Old and New Subscribers. If the newspapers or magazines you want are not on our list ask us about them and we will arrange with you to substitute them. Our special price will surprise you.

## First 50 Persons

Answering this advertizement will, in addition to \$2.00 for \$1.00, as above receive an INTERESTING and VALUABLE 125-PAGE BOOK. Be among the first 50 to send in your money and get this good book as an additional token of our interest in you and our good-will toward you.

Remember this offer is good only up to and including Commencement Day, June 8th, 1904, and that the

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State	the first 50.